

## **§ 57.12016**

for persons is provided by other means. This does not prohibit pulling or dragging of cable by the equipment it powers when the cable is physically attached to the equipment by suitable mechanical devices, and the cable is insulated from the equipment in conformance with other standards in this part.

### **§ 57.12016 Work on electrically-powered equipment.**

Electrically powered equipment shall be deenergized before mechanical work is done on such equipment. Power switches shall be locked out or other measures taken which shall prevent the equipment from being energized without the knowledge of the individuals working on it. Suitable warning notices shall be posted at the power switch and signed by the individuals who are to do the work. Such locks or preventive devices shall be removed only by the persons who installed them or by authorized personnel.

### **§ 57.12017 Work on power circuits.**

Power circuits shall be deenergized before work is done on such circuits unless hot-line tools are used. Suitable warning signs shall be posted by the individuals who are to do the work. Switches shall be locked out or other measures taken which shall prevent the power circuits from being energized without the knowledge of the individuals working on them. Such locks, signs, or preventive devices shall be removed only by the person who installed them or by authorized personnel.

### **§ 57.12018 Identification of power switches.**

Principal power switches shall be labeled to show which units they control, unless identification can be made readily by location.

### **§ 57.12019 Access to stationary electrical equipment or switchgear.**

Where access is necessary, suitable clearance shall be provided at stationary electrical equipment or switchgear.

## **30 CFR Ch. I (7–1–00 Edition)**

### **§ 57.12020 Protection of persons at switchgear.**

Dry wooden platforms, insulating mats, or other electrically-nonconductive material shall be kept in place at all switchboards and power-control switches where shock hazards exist. However, metal plates on which a person normally would stand and which are kept at the same potential as the grounded, metal, non-current-carrying parts of the power switches to be operated may be used.

### **§ 57.12021 Danger signs.**

Suitable danger signs shall be posted at all major electrical installations.

### **§ 57.12022 Authorized persons at major electrical installations.**

Areas containing major electrical installations shall be entered only by authorized persons.

### **§ 57.12023 Guarding electrical connections and resistor grids.**

Electrical connections and resistor grids that are difficult or impractical to insulate shall be guarded, unless protection is provided by location.

### **§ 57.12025 Grounding circuit enclosures.**

All metal enclosing or encasing electrical circuits shall be grounded or provided with equivalent protection. This requirement does not apply to battery-operated equipment.

### **§ 57.12026 Grounding transformer and switchgear enclosures.**

Metal fencing and metal buildings enclosing transformers and switchgear shall be grounded.

### **§ 57.12027 Grounding mobile equipment.**

Frame grounding or equivalent protection shall be provided for mobile equipment powered through trailing cables.

### **§ 57.12028 Testing grounding systems.**

Continuity and resistance of grounding systems shall be tested immediately after installation, repair, and modification; and annually thereafter.